

# Bushnell®

*Professional*

## BORE SIGHTER

## Instruction Manual

**Model # 743333**

The Bushnell Professional Boresighter is an essential tool for quickly adjusting scope or iron sights to align with the rifle or handgun barrel. Correct use of your Boresighter will put sighting-in test shots “on the paper”, requiring only minor expenditure of time and ammunition by test firing to achieve pin-point zero at a given distance. Because of the many variables involved in both ammunition and the firearm itself, final “sighting in” must be done by actual firing.

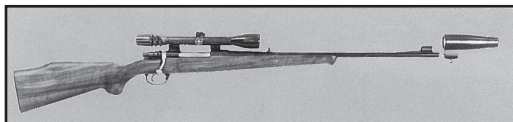
After “sighting in” by firing, reinstall the Boresighter in the muzzle of your gun and note the position of your scope reticle on the grid of the Boresighter. Make a record of this position for later use in checking the sighting in the field. Be sure to note the ammunition that was used.

On the hunt, the Boresighter is an invaluable aid for making sure that your rifle remains accurately sighted when test shots would frighten the game for miles around! In the shop it is ideal for checking stock bedding for sensitivity to barrel pressure.

### SPECIFICATIONS

Graduated Grid Sighting Reticle—each graduation is equivalent to 4 inches at 100 yards.

Diameter of Front Lens	1-1/2 inches
Length of Body	4-7/8 inches
Weight	6-1/2 ounces



**FIGURE 1**



**Professional Boresighter Kit**  
*Model# 74333*

**15 Arbor Deluxe Kit**  
*Model# 744001*

**Optional Accessory Arbors (available through your Bushnell dealer):**

Note that the unique expandable arbors included with the Professional Boresighter Kit provide exceptional flexibility that is ideal for most owners of multiple firearms. With only three arbors, the user can bore sight a wide range- from .22 to .45 caliber.

**15 Arbor Deluxe Kit (Model # 744001)**

Gunsmith quality with 15 assorted arbors for total versatility

Arbors include: .177, .22, 6mm, .25, 6.5mm, .27, 7mm, .30, .32, .338, .35, .375, .44, .45, and .50

**.50 Caliber to 12 Gauge Expandable Arbor (Model # 740012)**

Just the accessory for the shotgunner or muzzleloader shooter. Fits Professional and Deluxe boresighters.

## HOW TO INSERT THE EXPANDABLE ARBOR INTO THE GUN BARREL

Place the gun with mounted scope into a suitable support. Select the proper arbor and make sure the expandable tips are completely closed by turning the arbor's locking nut ("A" Fig. 1,2) counter-clockwise until the tips contract. Insert the small end of the arbor into the Boresighter mount with the flat area down, so that the end of the clamp screw ("B" Fig. 1) will bear against the flat surface. Turn the screw clockwise until it is fingertight. Now, with the Boresighter in an upright position, insert the arbor into the barrel and push it forward carefully until the muzzle rests against the tapered section of the arbor (Fig. 2). With the arbor locking nut loosened, and while looking through the scope, swing the Boresighter to align vertical grid lines with the scope reticle. Turn the arbor locking nut clockwise until the arbor holds firmly to the bore; the expandable tips prevent the Boresighter from turning of its own weight.

**NOTE:** *To remove the arbor from the barrel, simply loosen the arbor locking nut (Fig. 1), push inward to retract the tips, and pull the unit from the barrel.*





## HOW TO BORE SIGHT A SCOPE-MOUNTED RIFLE OR HANDGUN

### Scope/Rifle Combination

Once you have secured the Boresighter, place the rifle on a suitable support. Remove the adjustment caps from your riflescope. Then sight through the riflescope and align the reticle with the crosshairs of the graduated grid reticle in the Boresighter by using the riflescope's elevation and windage adjustments. Once you have aligned the riflescope reticle with the graduated grid reticle in the Boresighter, you are ready for sighting-in on the range. If bore sighting has been done properly, sighting-in should take a minimum of time and ammunition. After "sighting-in", don't forget to reinstall the Boresighter and record the reticle position (see pg. 1).

### Scope/Handgun Combination

Once you have secured the Boresighter to the barrel, place the handgun on a suitable support. Remove the adjustment caps from the scope. Sight through the scope and align the crosshairs with the crosshairs in the Boresighter using the scope's elevation and windage adjustments. Once you have aligned the scope crosshairs with those of the Boresighter, your handgun is ready for sighting-in on the range.

### How to Bore Sight a Rifle or Handgun with Iron Sights

Once you have secured the Boresighter to the barrel, place the handgun or rifle on a suitable support. Viewing through the rear sight, adjust the sights to align with the crosshairs on the graduated grid reticle in the Boresighter. When you have completed bore sighting, the handgun or rifle is ready for sighting-in on the range.

### How to Make Corrections for Bullet Drop

Using the scope adjustments, you can make correction for bullet drop at a specific distance provided the trajectory of the specific load is known. Each graduation on the Boresighter grid is equivalent to 4 inches at 100 yards. When the scope reticle is below the grid center, the gun will shoot high.

Model #: 743333

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